

AWTA PRODUCT TESTING

Australian Wool Testing Authority Ltd - trading as AWTA Product Testing
A.B.N 43 006 014 106

1st Floor, 191 Racecourse Road, Flemington, Victoria 3031
P.O Box 240, North Melbourne, Victoria 3051
Phone (03) 9371 2400

TEST REPORT

Client : Bremworth
7 Grayson Avenue
Papatoetoe
Auckland 2104 New Zealand

Test Number : 23-004588
Issue Date : 15/11/2023
Print Date : 16/11/2023

Sample Description Clients Ref : "AORAKI 740"
Loop pile carpet
Colour : Beige
End Use : Flooring
Nominal Composition : 100% Wool
Nominal Mass per Unit Area/Density : 1356g/m2
Nominal Thickness : 10.2mm



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Accredited for compliance with ISO/IEC 17025 - Testing
Accreditation Numbers: 983, 985, and 1356

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Fiona McDonald

APPROVED SIGNATORY

MICHAEL A. JACKSON B.Sc.(Hons)
MANAGING DIRECTOR

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ASTM C518-2021

Steady-State Thermal Transmission Properties by Means of the Heat Flow Apparatus

Test Date	15-11-2023	
Test Apparatus	Lasercomp Fox 314	
Sample Orientation	Horizontal	
Heat Flow Direction	Up	
Mean Test Temperature	23 °C	
Temperature Differential	20 °C	
Average Thermal Gradient	417.0 K/m	
Estimated uncertainty in results	3.1 %	
Specimen	1	2
Specimen Thickness (as received)	9.7	9.5 mm
Specimen Thickness (as tested)	49	47 mm
Specimen Density (as tested)	276	273 kg/m ³
Test Duration	01:34	02:04 hrs:mins
Measured Heat Flux	25.4	26.2 W/m ²
Measured Thermal Conductance	6.3414	6.5389 W/m ² K
Measured Thermal Conductivity	0.0617	0.0619 W/m.K
Thermal Resistance	0.79	0.76 m ² K/W
Thermal Resistance (1 layer)	0.16	0.15 m ² K/W

The calibration of the Heat Flow Apparatus was checked immediately prior to the commencement of the test.

The specimens were tested as 2 piles of 5 tiles stacked face to back with the back towards the hot plate.

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